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Polycondensation of Dichloroethane with Benzene,
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8 pp.

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Carbon-Chain Polymers and Copolymers, Communica-
tion 1, Synthesis and Polymerization of p-
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Kolesnikov, G. S. and Klimentova, N. V.
CARBON CHAIN POLYMERS AND COPOLYMERS. X.
BLOCK POLYMERIZATION OF METHYLMETHACRY-
LATE IN THE PRESENCE OF TRIBUTYLBORON.
May 61 [12]p. 3 refs. Technical notes FRL-TN-48;
AD-256 286.

Order from OTS or SLA \$1.60

61-19779

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1959, v. 1, no. 3, p. 362-366.

DESCRIPTORS: *Polymers, Synthesis, Molecular struc-
ture, *Acrylic resins, Polymerization, Methyl radicals.

The kinetics of block polymerization of methylmethacry-
late in the presence of tributylboron was studied, and
the effect of temperature and catalyst concentration on
the polymerization rate and on the molecular weight of
polymethylmethacrylate elucidated. (Author)

Chemistry--Organic, TT, v. 6, no. 6)

61-19779

- I. Kolesnikov, G. S.
- II. Klimentova, N. V.
- III. Title: Block ...
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XXI. COPOLYMERS BASED ON BICYCLO(2.2.1)
HEPTA-2,5-DIENE AND 1,2,3,4,7,7-HEXACHLORO-
BICYCLO(2.2.1)HEPTA-2,5-DIENE. [1961] 5p.
 Order from ATS \$6.75 ATS-19NS2R

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 1960, v. 2, no. 3, p. 451-455.

DESCRIPTORS: Polymerization, Copolymerization,
 Condensation reaction, Polymers, Cyclic compounds,
 Chlorine compounds

(Chemistry--Organic, TT, v. 6, no. 4)

- I. Kolesnikov, G. S.
- II. Suprun, A. P.
- III. Title: Copolymers ...
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Order from ATS \$8.00

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(Chemistry--Organic, TT, v. 5, no. 8)

61-12764

1. Polymers--Synthesis
2. Copolymerization--Analysis
3. Acrylates--Polymerization
4. Ethylenes--Polymerization
5. Title: Graft copolymers
- I. Kolesnikov, G. S.
- II. Tezen, Khan-min
- III. ATS-13N49R
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- V. Associated Technical
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Kolesnikov, G. S., Davydova, S. L., and Yermolayeva, T. I.
CARBOCHAIN POLYMERS AND COPOLYMERS. XVII. POLIMERISATION OF DIALLYL DERIVATIVES OF SILICON AND GERMANIUM (Karboteepnyye Polimery i Sopolimery. XVII. Polimerizatsiya Diallilnykh Sloyvodnykh Kremniya i Germaniya). [1960] 4p. 8 refs. M. 2207.

Order from LC or SLA mi\$1.80, ph\$1.80 61-13702

Trans. of Vysokomolekularnyye Soyedineniya (USSR) 1959, v. 1, no. 10, p. 1493-1495.

Diallyl derivatives of silicon and germanium in presence of triethylaluminum and titanium tetrachloride yield low molecular weight polymers. A structure is proposed for the products obtained.

(Chemistry--Organic, TT, v. 5, no. 2)

1. Allyl compounds - Polymerization
2. Silicon compounds (Organic)--Polymerization
3. Germanium compounds (Organic)--Polymerization
 - I. Kolesnikov, G. S.
 - II. Davydova, S. L.
 - III. Yermolayeva, T. I.
- IV. Title: Polymerization...
- V. DSIR LLU M. 2207

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Kolesnikov, G. S. and [Fedorova, L. S.].
CARBOCHAIN POLYMERS AND COPOLYMERS. XII.
EMULSION POLYMERIZATION OF VINYL COM-
POUNDS IN THE PRESENCE OF TRIBUTYLBORON.
[1960] 8p. 6 refs.

Order from SLA ml\$1.80, ph\$1.80 60-18428

Trans. of [Vysokomolekulyarnyye Soyedineniya] (USSR)
1959, v. 1 [no. 8] p. 1266-1269.

It was shown that the polymerization of acrylonitrile in emulsion and with the use of tributylboron as a catalyst takes place only in the presence of oxygen or an oxygen donor, for example hydrogen peroxide. Methylmethacrylate and styrene polymerize in the absence of oxygen with diminished yields below those in the presence of oxygen. The formation of compounds of a peroxide nature was shown qualitatively in emulsion polymerization of acrylonitrile in the presence of tributylboron and oxygen of the air and assumptions were made concerning their structure. A study was made of (Chemistry--Organic, TT, v. 5, no. 3) (over)

60-18428

1. Boron compounds (Organic)--
Chemical reactions
2. Vinyl polymers--Synthesis
- I. Kolesnikov, G. S.
- II. Fedorova, L. S.
- III. Title: Emulsion...

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ATS RJ-2132

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Kolesnikov, S. L. Davydova, 5 pp.

RUSSIAN, per Uspekhi Khim, Vol XXIX, No 12, 1960,
pp 1474-1486.

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Carbon Chain Polymers and Copolymers. VIII.
Solution Polymerization of Styrene and Methyl
Methacrylate in the Presence of Tributylborane,
by G. S. Kolesnikov,

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk.
No 4, 1959, pp 727-730.

ATS RJ-2131

Sci - Chem

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